

PDM32 Connectivity

The PDM32 uses different kinds of inputs.

Digital inputs

These are inputs where the input is either at ground or at battery but does not know any in-between state. A button or a switch can be connected to a Digital input.

Digital inputs can be active high (on when at +battery) or active low (on when at ground).

Analogue inputs

These inputs report the voltage it senses. If you connect one terminal of a variable resistor to battery, the other end to ground and the wiper to the analogue input the input gets the relative position of the wiper as a voltage. This is in effect how some fuel level sensors work. Pressure and temperature sensors use this method also.

RIO module inputs

A Rio unit has 8 digital inputs that can be active when high or low and must be programmed for to be active when high or when low.

It has 11 inputs that are active when low only, these inputs cannot know if they are at +battery level.

The Rio unit connects to the pdm on CAN0

Can Keyboards

These keyboards react to pressing the button by sending the button state to the PDM. The PDM can acknowledge the on state by sending back a signal to light the button.

The Can Keyboard connects to the PDM on CAN

Wireless Steering Wheel Keyboards

These keyboards react to pressing a button or turning a knob by sending the button state to the PDM via a radio link to a receiver which is connected to the PDM via CAN2.